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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/678,413	10/02/2000	Eduardo J. Baralt	T-5858	4378
7:	590 04/26/2002			
PHILLIPS CHEMICAL COMPANY L.P. 1301 McKINNEY ROOM 3446			EXAMINER	
			NGUYEN, TAM M	
HOUSTON, TX 77010			ART UNIT	PAPER NUMBER
			1764	7
			DATE MAILED: 04/26/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/678,413	BARALT ET AL.			
Office Action Summary	Examiner	Art Unit			
	Tam M. Nguyen	1764			
Th MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status					
1) Responsive to communication(s) filed on 14 F	ebruary 2002 .				
	s action is non-final.				
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closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-9</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).			
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12)☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)					
S. Patent and Trademark Office					

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DETAILED ACTION

Response to Amendment

The rejection of claims 1-3 and 5-9 under 35 USC § 102(b) as anticipated by Akatsu et al. (5,191,140) is withdrawn by the examiner in view of the response filed on February 14, 2002.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

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invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Theriot et al. (5,929,297) in view of Cupples et al. (4,045,507).

Theriot discloses an oligomerization process of an alphaolefinic feedstock (e.g., 1-decene) to produce polyalphaolefins by reacting the feedstock with a boro trifluoride catalyst in the presence of promoters such as an alcohol and a carboxylic acid. The process is operated a temperature from 40 to 60° C. (See abstract; col. 4, lines 10-46)

Theriot does not disclose that the carboxylic acid contains from 2 to 10 carbons (e.g., acetic acid) and does not disclose the mole percentage of acetic acid in the alphaolefinic feed.

Cupples discloses an oligomerization process of alphaolefinic feedstock wherein acetic acid is employed in the process at an amount from 0.01 to 3 weights per 100 weights of the alpha olefin. It is noted that when the feedstock is 1-decene, it is estimated that the mole percentage of acetic acid in 1-decene is about 0.02 to 7 %. (See col. 3, lines 32-56)

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the process of Theriot by using a carboxylic acid and an alcohol as promoters because Theriot discloses that two or more promoters selected from water, carboxylic acids, alcohol, ketone, and aldehydes can be used in the process.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the process of Theriot by using acetic acid as a carboxylic acid promoter because Cupples discloses that acetic acid can be used as a promoter in an oligomerization process of an alphaolefinic feedstock.

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Response to Arguments

The argument that in the Theriot reference and the Cupples reference, a carboxylic acid and alcohol may be used as a protic promotor while applicant's claimed catalyst system uses alcohol as a protic promotor and a carboxylic acid as a modifier is noted. However, the argument is not persuasive because the modified Theriot catalyst system, comprising boron trifluoride, alcohol and carboxylic acid, is the same as the claimed catalyst system. Therefore, the carboxylic acid and the alcohol of Thriot would function the same as the claimed carboxylic acid and the claimed alcohol. Promotor and modifier are just names.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tam M. Nguyen whose telephone number is (703) 305-7715.

The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Marian Knode can be reached on 703 308 4311. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 305-5408 for regular

communications and (703) 305-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0661.

Tam M. Nguyen

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Examiner

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Tam Nguyen/ TN April 25, 2002

Walter D. Griffin

WILL O. DM

Primary Examiner